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# **FLEET LOGISTICS SUPPORT IMPROVEMENT CONFERENCE**

## **SOFTWARE CONFIGURATION INITIATIVE**

Ms. D. Caroline Kowalsky, SEA 04L526  
Configuration Management & Readiness  
Division

Fleet Readiness

*Kowalsky,caroline@cnss.navy.mil*

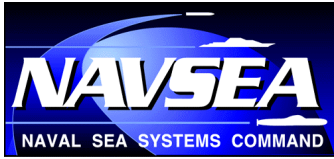
5 March 2003



# BACKGROUND

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- Need for a Navy Wide System to track Software Configurations
- NAVSEA 04L has CM Policy/Process responsibility
- CDMD-OA is the mandated CM repository for NAVSEA
- NAVSEA 04L developed policy/procedures & prototyped
  - TR01 Battle Force



# REQUIREMENT

Accurate and comprehensive software configuration is essential to facilitate interoperability assessments, determine unit capabilities, and ensure appropriate training and support.

*CDMD-OA is the NAVSEA  
mandated configuration  
recording tool*



# NAVSEA 04L

- Established process using CDMD-OA
  - Met with SSAs, ISEAs, CDMs, Program Managers and programmers
  - Developed initial software CM process
    - Defined CDMD-OA data elements to be used
    - Determined Record Types 2, 3 and 4 to be used
    - Reviewed process with programmers and SSAs/ISEAs/CDMs
    - Generated sample records to test process
    - Verified edit checks and formatted data entries (in use)



# NAVSEA 04L

- Implemented software CM process on a limited basis Discussed limited implementation
  - Decision - prototype to test process
  - Software CM Workshop - PHD NSWC
  - Kicked off Prototype
  - Collected data on software CM prototype systems
    - 169 records on 25 systems on 11 ships to date
      - » Records without Software Identification Numbers - 66
    - 1800 other software records also in system
    - Software Identification Number Average length - 7 characters



# PROCESS

- Use CDMD-OA RT2 , RT3, and RT4 records
  - RT2 for software versions - RT3 Logistics Support Documentation and more then one media installation - RT4 for patches or future versions
  - Expanded some data elements to record software version data
  - Assign X-RICs for software records
  - Associate software with system / hardware
  - ***Use DISCPL code of “V” for software, and SAC of “SWFTR” Record media type and serial number***



# PROCESS

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Ability to:

- Sort CDMD-OA for software records only
- Generate NAVSEA 53 requested report of installed software
- Generate VALAIDS for software validation
  - FLTILOLANT Validated Prototype Ships & VALAID



# OTHER RECORDS

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- NAVICP software RICS
  - Some systems are using NAVICP generated RICS for recording software configurations
  - Modification of NAVICP generated RICS allows data to be used
    - SAC = "SWFTR" and DISCPL = "V" will ID software records
    - PRID Media, SN Serial Number, and Parent System.
    - EIN = Software Version ID Number





# LESSONS LEARNED

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## **1. NAVICP RIC/CDMD-OA XRIC DATA FIELDS -**

*Some of the data fields did not follow requirements.*

- **Solution:** *Education by phone calls and emails AND updating Enterprise Documentation and putting out the Users Guide*

## **2. REDUNDANT DATA ENTRY -** *Prototype has flushed out un-necessary data entry duplication.*

- **Solution:** *Eliminate SW identification number in CCF. Eliminate the word 'software' at the beginning of EIN field and Nomenclature field.*



# LESSONS LEARNED

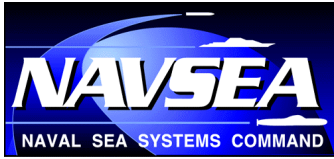
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**3. *NHA RIC/RIN vs Parent RIC/RIN – Conflict which to use and what actually falls out on the VAL AID.***

- ***Solution:*** Use the Parent RIC/RIN data fields to tie to the hardware. Works for both the configuration record (RT2) and the VAL AID Report.

**4. *Record Type 2 Data – Parent RIC and Parent Serial Number are not always loaded on RT 2.***

- ***Solution:*** Must be sure the CDM includes the Parent RIC and the Parent Serial Number in the final Record Type 2 in CDMD-OA.



# LESSONS LEARNED

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- **ISEA Process** – works.
- **CDM Process** – works.
- **Validation Process** – works.
- **Average Length of ID Numbers** – 7 (Seven).



# STATUS

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- XRICs manually issued
- Incorporating NAVICP records
- Successful initial validation of ships has been performed
- Currently redrafting NAVSEANOTE 4130 Requirements
  - Will promulgate for review/adjudication/signature



# FUTURE PLANS

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- Automate XRIC generation process
- Continue to incorporate NAVICP RICs
- Expand Battle Force / System Coverage
- Document software CM process – NAVSEANOTE 4130
- Transition to life cycle process



# POA&M





# POINTS OF CONTACT

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D. Caroline Kowalsky NAVSEA  
04L526

[Kowalsky.caroline@cnsn.navy.mil](mailto:Kowalsky.caroline@cnsn.navy.mil)  
(619) 437-2313

Leslie J. Jenné NAVSEA 04L5  
Support

[JenneLJ@supship.navy.mil](mailto:JenneLJ@supship.navy.mil)  
(619) 556-6690



# BACK UP SLIDES





# PROTOTYPE SYSTEMS/SHI

System	CVN 71 SNAP I	CG 55 SNAP II	CG 72 SNAP II	DDG 61 OPTIMIZED	DDG 71 OPTIMIZED	DD 969 SNAP II	DD 997 SNAP II	FFG 55 SNAP II	SSN 761 OPTIMIZED	SSN 768 OPTIMIZED	AOE 4 SNAP II	LHD 5 SNAP I	LPD 12 OPTIMIZED	LSD 41 SNAP II
TAS MK 23	X					X	X				X			
AN/SPS-48E	X											X		
CIFF (UPX-29)		X	X	X	X									X
AUTO ID	X													
SYS-2 IADT	X							X				X		
AN/SYQ-17 RAIDS						X	X	X						
MK 92								X						
NSSMS MK 57	X					X	X					X		
RAM MK 31												X		
CIWS MK 15	X	X	X	X	X	X	X	X			X	X	X	X
AN/SQQ-89		X	X	X	X	X	X	X						
CV-TSC SQQ-34	X													
AN/TPX-42(V)	X											X		
AWS		X	X	X	X									
RADD/ASDS	X							X			X	X	X	X
CDS/ACDS BLK 0/1	X					X	X	X				X		
SSDS MK1/2														X
GCCS-M	X	X	X	X	X	X	X	X	X	X	X	X	X	X
C2P	X	X	X	X	X									
SGS/AC	X	X	X	X	X							X		
AN/SLQ-32(V)	X	X	X	X	X	X	X	X			X	X	X	X
NAVSSI	X (blk3)	X (blk2)	X (blk2)		X (blk3)	X (blk2)	X (blk2)							
AN/WSN-7 (RLGN)	X	X	X		X									
BFTT			X											X



# DATA ELEMENTS

- ◆ RIC - XRIC used for software
  - XSFT00 + assigned number
  - Tab A - RIC NM = Software Version ID
  - Tab B - EIN = Software Version ID
  - TAB C - SW:(software Version ID):(narrative)
- ◆ EIN - Software version number - SAC - SWFTR
- ◆ NHA - EIN of parent hardware - DISCPL - V
- ◆ PRID - Media - SSRC - N
- ◆ SN - Serial Number of media - DISI - A
- ◆ P RIC - Parent Hardware RIC
- ◆ P SN - Serial Number of Parent Hardware
- ◆ EFD - Parent system and software ID



# RESPONSIBILITIES

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- ◆ SEA0 4L5/SPM/PARM
  - Define S/W Configuration Management Process
  - Develop and implement prototype process
  - Submit SRS for required CDMD-OA changes
  - Develop and promulgate guidance for S/W CM process
  - Measure effectiveness
- ◆ ISEAs/SSAs/SPM/PARM
  - Define software configurations
  - Generate Work Files containing required S/W data
  - Measure effectiveness
- ◆ CDMs/SPM/PARM
  - Review and validate the Work Files
  - Upload the Work Files
  - Measure effectiveness